Flight-Testing Newton's Laws			
2006 Science			
Grade Level and Grade Span Expectations			
New Hampshire Science			
Grades 9-11			
Activity/Lesson	**State**	**Standards**	
Session-10 (1-5)	NH	SCI.9-11.S:PS3:11:1.3	Recognize that the strength of the gravitational force between two masses is proportional to the masses and inversely proportional to the square of the distance between them.
Session-10 (1-5)	NH	SCI.9-11.S:PS3:11:2.1	Interpret and apply the laws of motion to determine the effects of forces on the motion of objects.
Session-1 (1-17)	NH	SCI.9-11.S:PS3:11:1.8	Given information (e.g., graphs, data, diagrams), use the relationships between or among force, mass, velocity, momentum, and acceleration to predict and explain the motion of objects.
Session-1 (1-17)	NH	SCI.9-11.S:PS3:11:2.1	Interpret and apply the laws of motion to determine the effects of forces on the motion of objects.
Session-1 (1-17)	NH	SCI.9-11.S:PS3:11:2.3	Apply the concepts of inertia, motion, and momentum to predict and explain situations involving forces and motion, including stationary objects and collisions.
Session-2 (1-10)	NH	SCI.9-11.S:PS3:11:1.8	Given information (e.g., graphs, data, diagrams), use the relationships between or among force, mass, velocity, momentum, and acceleration to predict and explain the motion of objects.
Session-2 (1-10)	NH	SCI.9-11.S:PS3:11:2.1	Interpret and apply the laws of motion to determine the effects of forces on the motion of objects.
Session-3 (1-6)	NH	SCI.9-11.S:PS3:11:2.1	Interpret and apply the laws of motion to determine the effects of forces on the motion of objects.
Session-3 (1-6)	NH	SCI.9-11.S:PS3:11:2.3	Apply the concepts of inertia, motion, and momentum to predict and explain situations involving forces and motion, including stationary objects and collisions.
Session-4 (1-11)	NH	SCI.9-11.S:PS3:11:1.8	Given information (e.g., graphs, data, diagrams), use the relationships between or among force, mass, velocity, momentum, and acceleration to predict and explain the motion of objects.
Session-4 (1-11)	NH	SCI.9-11.S:PS3:11:2.3	Apply the concepts of inertia, motion, and momentum to predict and explain situations involving forces and motion, including stationary objects and collisions.

Session-5 (1-6)	NH	SCI.9-11.S:PS3:11:1.8	Given information (e.g., graphs, data, diagrams), use the relationships between or among force, mass, velocity, momentum, and acceleration to predict and explain the motion of objects.
Session-5 (1-6)	NH	SCI.9-11.S:PS3:11:2.1	Interpret and apply the laws of motion to determine the effects of forces on the motion of objects.
Session-6 (1-8)	NH	SCI.9-11.S:PS3:11:2.1	Interpret and apply the laws of motion to determine the effects of forces on the motion of objects.
Session-7 (1-5)	NH	SCI.9-11.S:PS3:11:1.8	Given information (e.g., graphs, data, diagrams), use the relationships between or among force, mass, velocity, momentum, and acceleration to predict and explain the motion of objects.
Session-7 (1-5)	NH	SCI.9-11.S:PS3:11:2.1	Interpret and apply the laws of motion to determine the effects of forces on the motion of objects.
Session-8 (1-9)	NH	SCI.9-11.S:PS3:11:1.8	Given information (e.g., graphs, data, diagrams), use the relationships between or among force, mass, velocity, momentum, and acceleration to predict and explain the motion of objects.
Session-8 (1-9)	NH	SCI.9-11.S:PS3:11:2.1	Interpret and apply the laws of motion to determine the effects of forces on the motion of objects.
Session-9 (1-7)	NH	SCI.9-11.S:PS3:11:1.8	Given information (e.g., graphs, data, diagrams), use the relationships between or among force, mass, velocity, momentum, and acceleration to predict and explain the motion of objects.
Session-9 (1-7)	NH	SCI.9-11.S:PS3:11:2.1	Interpret and apply the laws of motion to determine the effects of forces on the motion of objects.
Flight-Testing Newton's Laws			
2006 Science			
Grade Level and Grade Span Expectations			
New Hampshire Science			
Grades 11-12			
Activity/Lesson	**State**	**Standards**	
Session-10 (1-5)	NH	SCI.11-12.S:SPS1:12:1.4	Ask questions about relationships between and among observable variables as well as theoretical entities.
Session-1 (1-17)	NH	SCI.11-12.S:SPS1:12:1.4	Ask questions about relationships between and among observable variables as well as theoretical entities.
Session-2 (1-10)	NH	SCI.11-12.S:SPS1:12:1.3	Make measurements and observations about a variety of events and phenomena, including those that occur during very small and very large time frames.